# FDTC 2021: Final Program (PDF)

#### FDTC 2021 is a Virtual Conference (Zoom Webinar)

#### Schedule refers to Central European Summer Time (CEST)

### Start: 09:15 CEST (03:15 am New York – 04:15 pm Tokyo)

09:15 – 09:30 Opening remarks

	<b>Keynote I</b> Chair: Luca Breveglieri
09:30 - 10:20	Managing Natural Hazards and Adversarial Fault Injections in the Context of Connected Emebedded Systems <i>Sylvain Guilley</i>
10:20 - 10:50	Break
	Session 1 – Fault Analysis Chair: Shivam Bhasin
10:50 - 11:15	On the Importance of Initial Solutions Selection in Fault Injection Marina Krček, Daniele Fronte and Stjepan Picek
11:15 - 11:40	A High-Order Infective Countermeasure Framework Guillaume Barbu, Luk Bettale, Laurent Castelnovi, Thomas Chabrier, Nicolas Debande, Christophe Giraud and Nathan Reboud
11:40 - 12:05	ARCHIE: A QEMU-Based Framework for Architecture-Independent Evaluation of Faults Florian Hauschild, Kathrin Garb, Lukas Auer, Bodo Selmke and Johannes Obermaier
12:05 - 12:30	EM Fault Model Characterization on SoCs: From Different Architectures to the Same Fault Model <i>Thomas Trouchkine, Guillaume Bouffard and Jessy Clédière</i>
12:30 - 13:30	Lunch

	Session 2 – Short Presentations Chair: Guillaume Bouffard
13:30 - 13:45	Safe-Error Analysis of Post-Quantum Cryptography Algorithms Luk Bettale, Simon Montoya and Guénaël Renault
13:45 - 14:00	Algebraic Fault Analysis of Subterranean 2.0 Michael Gruber, Patrick Karl and Georg Sigl
14:00 - 14:15	Are Cold Boot Attacks still Feasible: A Case Study on Raspberry Pi with Stacked Memory Yoo-Seung Won and Shivam Bhasin
14:15 - 14:30	EMFI for Safety-Critical Testing of Automotive Systems Colin O'Flynn

## Keynote II

14:30 - 15:20	Fault Attacks against your Zen
	Jean-Pierre Seifert

15:20 – 15:50 Break

Session 3 – Experimentation on Fault Attacks			
	Chair: Victor Lomné		
15:50 - 16:15	On the Scaling of EMFI Probe Julien Toulemont, Geoffrey Chance, Jean-Marc Galliere, Frederick Mailly, Pascal Nouet and Philippe Maurine		
16:15 - 16:40	Laser Fault Injection in a 32-bit Microcontroller: from the Flash Interface to the Execution Pipeline Vanthanh Khuat, Jean-Luc Danger and Jean-Max Dutertre		
16:40 - 17:05	The Forgotten Threat of Voltage Glitching: A Case Study on Nvidia Tegra X2 SoCs Otto Bittner, Thilo Krachenfels, Andreas Galauner and Jean-Pierre Seifert		
Panel Discussion Moderator: Sylvain Guilley			
17:05 - 17:55	Electromagnetic Disturbance in the Industry Arthur Beckers, Philippe Maurine, Colin O'Flynn and Stjepan Picek		

New capabilities have emerged where electromagnetic (EM) benchs are used to cryptanalyze chips. The progress of this "research field" is fast, in terms of reproducibility, accuracy and number of use cases. Yet there is not enough awareness about such advances and their security threats. We discuss quantitative metrics to assess the harmfulness of EM fault injection (EMFI), so as to allow for a pre-silicon (source-code level) validation of the robustness against EMFI attacks and therefore for a reasonable security assessment.

17:55 – 18:00 Closing remarks and Farewell